

TITLE

NON-CONTACT 3D SURFACE METROLOGY

COMPANY PROFILE



SLOGAN

BECAUSE ACCURACY MATTERS

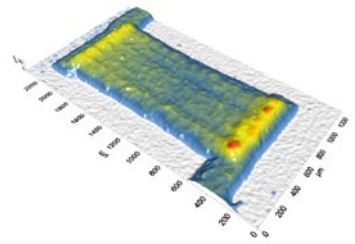
TITLE

APPLICATIONS

PRODUCT

THICK FILM

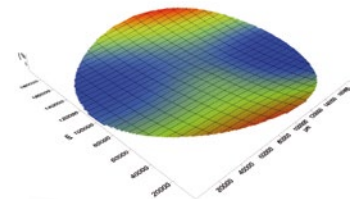
- The non-contact measurement technology checks the wet sample immediately after the print
- Automatic measurement routines create repeatable and user independent results



PRODUCT

FLATNESS

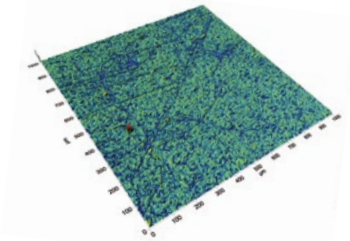
- Accurate measurement of flatness even on large and highly contoured parts
- Effective methods for removing edges and defining target areas



PRODUCT

SURFACE ROUGHNESS

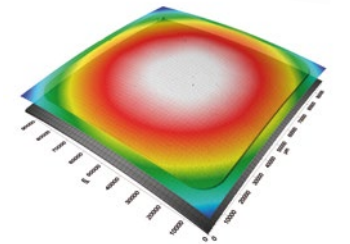
- Non-destructive and fast roughness measurements
- All analyses are conforming to DIN ISO standards, tactile probe tip simulation software



PRODUCT

THICKNESS

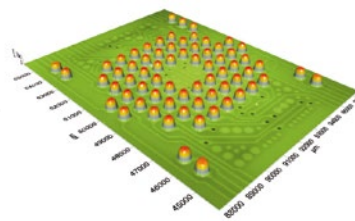
- Parallel scanning with up to 4 sensors
- Collect Top, Bottom and Thickness data, Average Thickness, Bow and Curvature, Total Thickness Variation, Parallel Intensity Masking



PRODUCT

COPLANARITY

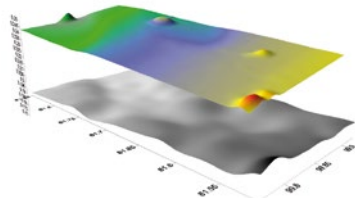
- Draw rectangle, round or polygon cursors to define base plane and measurement areas.
- 3D Height (avg., max. and min. height), Flatness and Warpage, Coplanarity



PRODUCT

TRANSPARENT FILM AND COATINGS

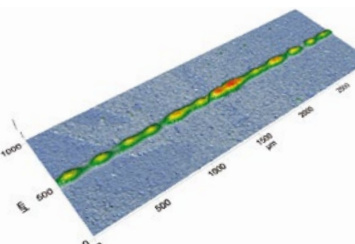
- Accurate measurement of transparent deposits and films, including height, area and volume as well as length, width and position
- Effective technology for detecting different surface levels



PRODUCT

SOLAR

- A blue laser sensor can collect data from texturized and coated solar cell surfaces
- Edge detection algorithms measure finger height and width



CYBERSCAN

CT PLATFORM

- High-speed / High-resolution 3D scanning system
- Travel ranges from 100 mm to 600 mm
- Z-resolution down to 3 nm
- Measurement range up to 25 mm

cyberscan
CT 100



- Compact bench top system
- 100 mm travel
- Fast data acquisition

cyberscan
CT 300



- Large 315 mm scanning area
- Stable, vibration isolated platform
- Ideal for use in production

cyberscan
VANTAGE 2



- Integrated and compact design
- Large 200 mm scanning area
- 3D interferometer or CHR sensors

CT SPECIAL

Based on its sophisticated scan platform cyberTECHNOLOGIES offers customized solutions for special applications.

cyberscan
CT 350 S



- High end profiling system
- Ultra accurate motion system
- Continuous autofocus with active z-axis

cyberscan
CT 600 S



- 600 mm scanning area
- Gantry system with high accurate air bearings
- Flatness < 0.5 µm over 600 mm

cyberscan
CT 350 T



- Dual sided thickness measurement
- Measures thickness, TTV, bow and warp etc.
- Flexible use as standard profiling system

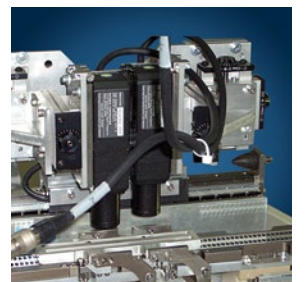
cyberscan
CT R200



- 3 axis scanning system including rotary stage
- For round parts from 5 mm to 200 mm diameters
- Measures roundness, diameter, concentricity and roughness

cyberscan
IN - LINE
SOLUTIONS

- Integrated solution for automated non-contact scanning directly in the production process



BECAUSE ACCURACY MATTERS

SLOGAN

TITLE

SENSORS

PRODUCT

POINT SENSORS - CONFOCAL WHITE LIGHT

The CHR sensors are high end confocal sensors, based on the principal of chromatic aberration. They offer maximum accuracy and high speed. The sensors are available with various resolutions, ranges and numeric apertures.



PRODUCT

POINT SENSORS - LASER CONFOCAL AND LASER TRIANGULATION

The confocal laser sensor uses a blue laser source and is ideally for measuring solar cells. The sensor is available on all systems. The DSR-500 is ideal for measuring thick-film on a variety of substrates. It is available for the VANTAGE 50.



PRODUCT

POINT SENSORS - INTERFEROMETER FOR THICKNESS MEASUREMENT

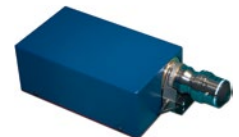
A white light interferometer measures the thickness of transparent materials and films. It is based on the CHR controllers and can be combined with a CHR sensor head. Various infrared interferometers are available for measuring wafer thickness as well as glue and epoxy films.



PRODUCT

AREA SENSORS - 3D WHITE LIGHT INTERFEROMETER

The 3D white light interferometers are available with 3 measurement ranges: 100 μm , 250 μm and 400 μm . The resolution in z-direction is 0.1 nm.



PRODUCT

AREA SENSORS - 3D CONFOCAL MICROSCOPE

The 3D confocal microscope uses a rotating Nipkow Disk and offers 400 μm range and height resolution down to 1 nm.



PRODUCT

LINE SENSORS - CONFOCAL WHITE LIGHT

The confocal line sensor scans even large samples with unmatched speed (384.000 data points/sec.). There are three different line widths available: 0.96 mm, 1.91 mm and 4.78 mm.



TITLE

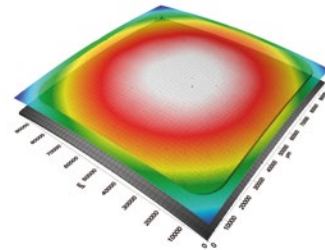
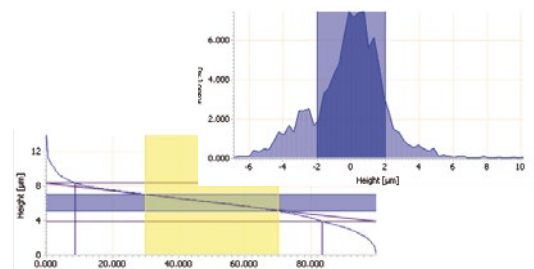
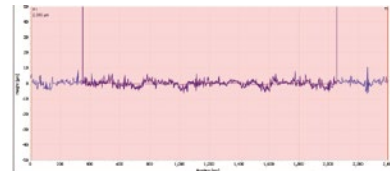
SOFTWARE

SCAN SUITE is the software package for all cyberSCAN SYSTEMS and is based on the latest programming technologies. System control, data collection and analysis are combined in an operator friendly user interface.

PRODUCT

SCAN CT HIGHLIGHTS

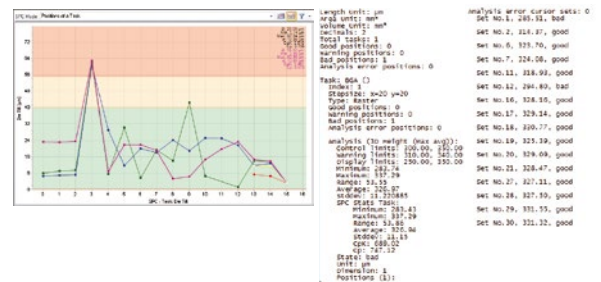
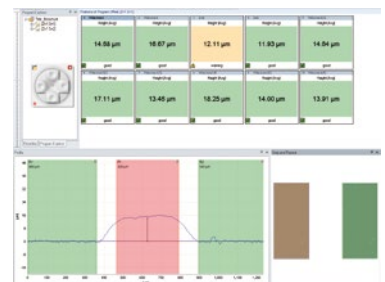
- Complete 2D profile and 3D surface analysis
- Profile and 3D roughness measurements according to DIN ISO EN Standards
- Comprehensive profile and surface compensations
- Advanced filter technologies
- Uni / bi-directional scanning
- Linear, circular and ellipsoidal scanning
- Simultaneous data collection of up to 4 sensors
- Dedicated user management
- Up to 200 million data points per raster
- Fast multithread technology



PRODUCT

ASCAN HIGHLIGHTS

- Software tool for measuring 2D profiles and 3D raster automatically
- Easy to use, menu based software, no programming skills required
- 2D and 3D edge detection algorithms
- Clear good, bad and warning indication
- Built-in SPC Charts with reporting function
- Easy programming using tasks and templates
- Integrated database for tasks
- Offset and fiducial correction
- Table view for multiple results
- Flexible, user defined data output format
- Barcode or user field input
- Step & Repeat function
- Plug-Ins for customized software solutions



CLAIM

BECAUSE ACCURACY MATTERS

cyberTECHNOLOGIES is the leading supplier of high-resolution, non-contact 3D measurement systems for industrial and scientific applications. The heart of the system is a high resolution optical sensor either laser-based or with a white light source.

Our systems are widely used in a multitude of applications in microelectronics and other precision industries including thickfilm measurement, solar cell measurement, flatness measurement, coplanarity measurement, roughness measurement, stress measurement, TTV measurement and much more. Our 3D optical profilometer, along with our software package, provides accurate and dependable readings. Major international companies, as well as many small and medium sized companies, trust in cyberTECHNOLOGIES solutions. As a global player, cyberTECHNOLOGIES takes advantage of a worldwide network of qualified distributors and representatives.

MISSION

MAKE INNOVATIVE SURFACE METROLOGY SYSTEMS TO MEASURE AND ENSURE QUALITY OF PRODUCTS AND PROCESSES.

CONTACT

cyber
TECHNOLOGIES



cyberTECHNOLOGIES GmbH
Georg-Kollmannsberger-Straße 3
85386 Eching-Dietersheim, Germany

tel +49 89 452 4666-0
fax +49 89 452 4666-10

info@cybertechnologies.com
www.cybertechnologies.com

PARTNERS

